International Application No

INTERNATIONAL SEARCH REPORT

PCT/EP2004/051034

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			, 17 EF 2004/ 05 1034			
A. CLASS IPC 7	FICATION OF SUBJECT MATTER H05K13/04 H05K3/30					
According to	o International Patent Classification (IPC) or to both national classifi	cation and IPC	•			
B. FIELDS	SEARCHED					
Minimum do	ocumentation searched (classification system followed by classifica H05K :	tion symbols)				
Documenta	tion searched other than minimum documentation to the extent that	such documents are included	in the fields searched			
Electronic d	ata base consulted during the international search (name of data b	ase and, where practical, sear	ch terms used)			
EPO-In	ternal, IBM-TDB					
	V .					
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.			
Х	US 2002/184755 A1 (SUHARA SHINSU 12 December 2002 (2002-12-12) page 11 - page 27; figures 1-16	KE)	1,8-11			
Υ	page 11 page 27, right es 1-10		2-7			
γ.	DE 196 10 294 A (ROSSELL AG) 10 October 1996 (1996-10-10) column 1, line 3 - column 1, line	. 2,3				
Υ	EP 1 161 129 A (FUJI MACHINE MFG 5 December 2001 (2001-12-05) column 25 - column 26	4-7				
Α	US 4 776 080 A (CHRISTENSEN BLAK 11 October 1988 (1988-10-11) the whole document	Ξ)	1-11			
Further documents are listed in the continuation of box C. X Patent family members are listed in annex.						
"A" documer conside "E" earlier dilling de "L" documer which !! citation "O" docume other m" "P" documer later the	nt which may throw doubts on priority claim(s) or s cited to establish the publication date of another or other special reason (as specified) In referring to an oral disclosure, use, exhibition or neans nt published prior to the international filing date but an the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family				
Date of the a	ctual completion of the international search	Date of malling of the international search report				
15	November 2004	22/11/2004				
Name and mailing address of the ISA, European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016		Authorized officer Debre, A				

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Information on patent family members

International Application No PCT/EP2004/051034

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002184755	A1	12-12-2002	JP	2002368494 A	20-12-2002
DE 19610294	Α	10-10-1996	DE	19610294 A1	10-10-1996
EP 1161129	A	05-12-2001	JP EP US	2001345596 A 1161129 A2 2002053133 A1	14-12-2001 05-12-2001 09-05-2002
US 4776080	Α	11-10-1988	IJΡ	63162141 A	05-07-1988